IN THE CLAIMS

- 1 (Previously Presented). A cellular transceiver comprising:
 - a first digital decimation filter with to pass N bands; and
- a second digital decimation filter to reject [[N-1]] <u>all but one of said N</u> bands coupled to said first digital decimation filter, adapted to implement a Global System for Mobile communication mode wherein said first and second digital decimation filters are programmable tap filters.
- 2 (Original). The transceiver of claim 1 wherein said first digital decimation filter may selectively implement a digital square-root-raised-cosine filter for a Wideband Code Division Multiple Access mode.

Claim 3 (Canceled).

- 4 (Original). The transceiver of claim 2 including a controller that selectively programs said first digital decimation filter to provide an output for a Wideband Code Division Multiple Access mode.
- 5 (Original). The transceiver of claim 4 wherein said first digital decimation filter is coupled to a controller that is programmable to cause said first digital decimation filter to output N bands for a Global System for Mobile communication mode.
- 6 (Currently Amended). The transceiver of claim 4 wherein said first digital decimation filter and said second digital decimation filter provide an output for [[a]] the transceiver when receiving a Global System for Mobile communication signal and said first digital decimation filter provides an output when the system cellular transceiver is receiving a Wideband Code Division Multiple Access signal.
- 7 (Original). The transceiver of claim 6 wherein said first digital decimation filter is programmable to have either twenty-one or fifty-three taps.

- 8 (Original). The transceiver of claim 7 wherein said second digital decimation filter has twenty-seven taps.
- 9 (Currently Amended). The transceiver of claim 1 including a memory that provides less than all of the coefficients from said first filter to said second filter.
- 10 (Currently Amended). The transceiver of claim $\underline{9}$ [[8]] wherein said memory provides less than all of the coefficients from said first digital decimation filter to said second digital decimation filter.
- 11 (Currently Amended). The transceiver of claim 1 wherein the output from said first digital decimation filter and the output from said second digital decimation filter are coupled to a multiplexer, the output of said multiplexer being selectively controllable depending on the nature of the cellular system a received signal.
- 12 (Previously Presented). The transceiver of claim 11 wherein the output of said multiplexer depends on whether the transceiver is utilized in a Global System for Mobile communication or a Wideband Code Division Multiple Access system.
- 13 (Currently Amended). The transceiver of claim 12 including a controller that selectively programs said first digital decimation filter to provide an output for a Wideband Code Division Multiple Access mode wherein said controller selects the output of the first digital decimation filter when the transceiver is located in a Wideband Code Division Multiple Access system and selects the output of the second digital decimation filter when the transceiver is in a Global System for Mobile communication system.
- 14 (Original). The transceiver of claim 13 wherein the output from said second digital decimation filter is a result of filtering by said first digital decimation filter and said second digital decimation filter.

- 15 (Currently Amended). The transceiver of claim 12 using the same an anti-alias analog filter and analog-to-digital converter that is the same for both modes Global System for Mobile communication and Wideband Code Division Multiple Access systems.
- 16 (Currently Amended). A method of receiving cellular signals comprising:

 providing a first filtering stage and a second filtering stage;

 detecting the type of signal that has been received;

 selectively programming said first stage to filter a Wideband Code Division

Multiple Access signal or a Global System for Mobile communication signal;

- using said second stage to filter the Global System for Mobile communication signal; and
- detecting the type of signal that has been received;

 adapting said first and second stages to the type of the detected signal; and selectively using said first and second stages based on the type of the detected signal.
- 17 (Currently Amended). The method of claim 16 including selectively setting the number of taps in said first <u>filter</u> stage to provide a square-root-raised-cosine filter for a Wideband Code Division Multiple Access mode.
- 18 (Currently Amended). The method of claim 16 including using said first stage to filter N bands and said second stage to reject [[N-1]] one less than the N bands.
 - 19 (Canceled).
- 20 (Currently Amended). The method of claim 16 including selectively filtering said input signal depending on whether the input signal is [[for]] a Global System for Mobile communications mode or a Wideband Code Division Multiple Access mode.
- 21 (Currently Amended). The method of claim 16 including providing less than all of the coefficients from said first stage to said second stage.

- 22 (Currently Amended). The method of claim 16 including using the same an antialias analog filter and analog-to-digital converter that is the same for both the Wideband Code Division Multiple Access and Global System for Mobile communication modes.
- 23 (Currently Amended). The method of claim 17 including setting [[the]] <u>a</u> number of taps depending on the type of signal received.
- 24 (Original). The method of claim 23 including setting the number of taps in said first stage to 21 when a Wideband Code Division Multiple Access signal is received.
- 25 (Original). The method of claim 24 including setting the number of taps in said first stage to 53 when a Global System for Mobile communication signal is received.
- 26 (Currently Amended). <u>A computer-readable medium</u> An article comprising a medium for storing instructions that cause a processor-based system to:

selectively set [[the]] <u>a</u> number of taps in a first filtering stage depending on whether a Wideband Code Division Multiple Access signal or a Global System for Mobile communication signal has been detected; and

select an output from either [[a]] the first of two filtering stages or a second of two filtering stages stage depending on whether a Wideband Code Division Multiple Access or a Global System for Mobile communication signal is received.

- 27 (Currently Amended). The <u>article medium</u> of claim 26 further storing instructions that cause [[a]] <u>the processor-based system to control a multiplexer to select [[the]] an output of said first or said second filtering stage as the output from said filtering stages.</u>
- 28 (Currently Amended). The <u>article medium</u> of claim 26 further storing instructions that cause [[a]] <u>the processor-based</u> system to provide less than all of the coefficients from said first stage to said second stage when a Global System for Mobile communication signal is being received.

- 29 (Currently Amended). The <u>article medium</u> of claim 28 further storing instructions that cause [[a]] <u>the processor-based system to set [[the]] a number of taps in said first filtering stage at twenty-one when a Wideband Code Division Multiple access signal is received and at fifty-three when a Global System for Mobile communication signal is received.</u>
- 30 (Currently Amended). The <u>article medium</u> of claim 29 further storing instructions that cause [[a]] <u>the processor-based system to store [[the]]</u> coefficients from said first <u>filtering</u> stage before passing them to said second <u>filtering</u> stage when a Global System for Mobile communication signal is being received.